

of Air, Water, or Glas of an even thickness appeared of one Colour when the rays were perpendicular to it, of another when they were a little oblique, of another when more oblique, of another when still more oblique, and so on ; so here, in the sixth Observation, the Light which emerged out of the Glas in several obliquities, made the Glas appear of several Colours, and being propagated in those obliquities to the Chart, there painted Rings of those Colours. And as the reason why a thin plate appeared of several Colours in several obliquities of the rays, was, that the rays of one and the same sort are reflected by the thin plate at one obliquity and transmitted at another, and those of other sorts transmitted where these are reflected, and reflected where these are transmitted : So the reason why the thick plate of Glas whereof the Speculum was made did appear of various Colours in various obliquities, and in those obliquities propagated those Colours to the Chart, was, that the rays of one and the same sort did at one obliquity emerge out of the Glas, at another did not emerge but were reflected back towards the Quick-silver by the hither surface of the Glas, and accordingly as the obliquity became greater and greater emerged and were reflected alternately for many successions, and that in one and the same obliquity the rays of one sort were reflected, and those of another transmitted. This is manifest by the first Observation of this Book : For in that Observation, when the Speculum was illuminated by any one of the prismatic Colours, that Light made many Rings of the same Colour upon the Chart with dark intervals, and therefore at its emergence out of the Speculum was alternately transmitted, and not trans-

transmitted from successions, according to its emergence. And in the Speculum by the Prism the Colour cast of the Colour, and the transmitted and the Lens at other me therefore the original with the difference that the ternate reflexion second surface of But here the rays they are alternately they go through silver, and then to the first surface the Chart or accordingly as the transmission where intervals of the particularly on the Speculum same perpendicular these Angles and ber within the 19th Proposition therefore since all surface are in the trance, and as many second are in their must be again in